

345416

**SITE ASSESSMENT REPORT
FOR
LEFTON IRON & METAL
TDD: T05-9107-019
PAN: EIL0746SAA**

JANUARY 13, 1992

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Approved by: Thomas A. Jones

Date: 1-13-92
Date: 1-13-92
Date: 1-13-92



ecology and environment, inc.

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International Specialists in the Environment

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INTRODUCTION

The Ecology and Environment (E & E) Technical Assistance Team (TAT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to perform a site assessment at the Lefton Iron & Metal (Lefton) site, East St. Louis, Cahokia County, Illinois. The Illinois Environmental Protection Agency (IEPA) previously responded to a report that polychlorinated byphenyls were present on the property. IEPA requested U.S. EPA assistance to assess conditions at the site.

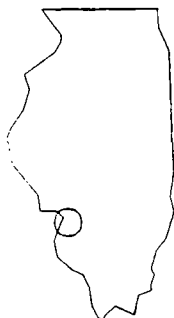
BACKGROUND

The Lefton site is an active metal scrap yard. It is owned by two brothers, Ben and Norman Lefton. The Lefton site consists of two facilities, yard 1 which is located at 205 S 17th Street, and yard 2 which is located at 1901 Converse Avenue. Both yards lie within the city boundaries of East St. Louis, Illinois (see Figure 1). The site is located in a mixed residential/industrial community. Yard 1 is bordered by railroad tracks to the northeast, 17th Street on the southeast, Brady Avenue on the southwest, and a commercial business to the northwest. Yard 2 and the area behind it, is bordered by Brady Avenue on the northeast, 19th Street on the northwest, Converse Avenue on the southwest, and a residential area on the southeast.

The IEPA previously received a complaint alleging that PCBs were present at the Lefton site. The IEPA was able to gain access and sample yard 1 and the area behind yard 2. PCBs were detected at concentrations above 50 mg/kg, but below 100 mg/kg. The state was never able to gain access to yard 2 or a response by the potentially responsible parties (PRPs) and thus requested the assistance of the U.S. EPA.



QUADRANGLE LOCATION



ecology and environment, inc.
Technical Assistance Team
Region V

206 S. LaSalle St., Ste. 1300, Chicago, Illinois 60604

TITLE SITE LOCATION MAP		FIGURE # 1
SITE LEFTON IRON & METAL		SCALE 1:24,000
CITY EAST ST. LOUIS	STATE ILLINOIS	PAN EIL0746SAA
SOURCE USGS CAHOKIA IL/MO QUAD		DATE 1954
		REVISED 1974

SITE ACTIVITIES

October 24, 1991: TAT mobilized equipment and arrived on-site with the U.S. EPA On-Scene Coordinator (OSC) at 0845. The PRPs, their attorney, and consultant met with the OSC and TAT at this time.

Personnel on-site and their affiliations are listed below:

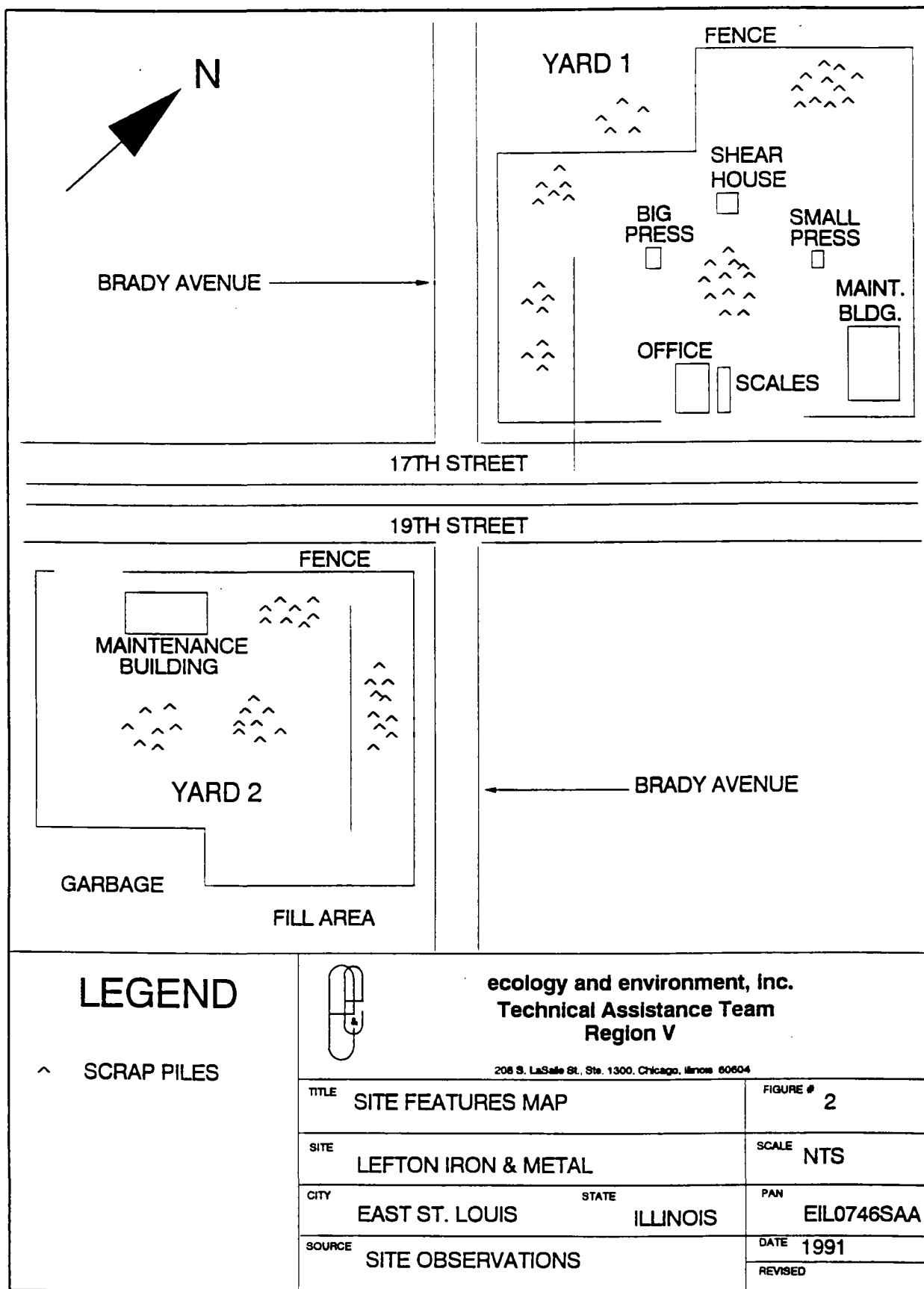
<u>Personnel</u>	<u>Affiliation</u>
Brad Benning	U.S. EPA OSC
Julie Zakutansky	TAT Project Manager
Ben Lefton	Owner/PRP
Norman Lefton	Owner/PRP
Crystal Kennedy	Attorney/Thompson & Mitchell
Daniel Flynn	Consultant/RAPPS Engineering
John McCarthy	Attorney General Office

After initial discussion, Ben Lefton gave the OSC, TAT, the attorney, and the consultant a tour of the facility. TAT performed air monitoring with the site entry equipment. No readings above background were observed on the organic vapor analyzer (OVA) or on the combination oxygen/combustible gas indicator.

Yard 1 was completely fenced and contained an office building, a maintenance shop, two presses, a shear house, and several large scrap piles (see Figure 2). Yard 2 is also completely fenced and contained a maintenance building and several large scrap piles. The area behind yard 2 was overgrown with weeds and trees. Puddles of water were present on-site due to the excessive rains of the previous day. Several areas of oily stained soil were visible.

The state indicated that transformers were previously stored at the Lefton site; however, no transformers were observed by TAT during the site inspection. The state also indicated that contaminated soil was allegedly dumped in the area behind yard 2.

Based on the initial site observations and information from the State, the OSC decided that twelve samples and a duplicate would satisfy



the sampling objective of the investigation. Five samples were taken from yard 1, four from yard 2, and three plus a duplicate from the fill area behind yard 2 (see Figure 3). Soil samples S01, S02, S03, and S05 were taken from oily stained areas within yard 1. Soil sample S04 was taken just outside the Lefton property boundary to determine if contaminants or pollutants were migrating off-site. Soil samples S06, S07, S08, and S09 were taken from oily stained areas within yard 2. Samples S10, (a duplicate of S10, S102) S11, and S12 were taken from oily stained areas behind yard 2. All of the samples were split with the consultant for the PRP.

Decontamination of the samples was followed by the bagging of all personal protective clothing and sampling waste. The bagged wastes were left on-site. The samples were packaged and shipped via Federal Express to the E & E Analytical Services Center, Buffalo, New York. Analysis of the samples for PCBs was specified under TDD # T05-9107-806.

ANALYTICAL RESULTS

The results indicate that PCBs are present in the alleged dumping area behind yard 2, in concentrations above 50 mg/kg ppm, the required cleanup level as defined in 40 CFR part 761.120(G). Sample S09 taken within yard 2 contained Aroclor-1260 at 68 mg/kg. Total PCB concentration in Sample S11 was 120 mg/kg and in S12 was 128 mg/kg. A summary of the results for the analysis of the 13 samples collected on-site is presented in Table 1.

DISCUSSION OF POTENTIAL THREATS

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) part 300.415 (b)(2) lists factors to be considered when determining the appropriateness of a potential removal action at a site. The following presents a summary of those factors which apply to the Lefton site.

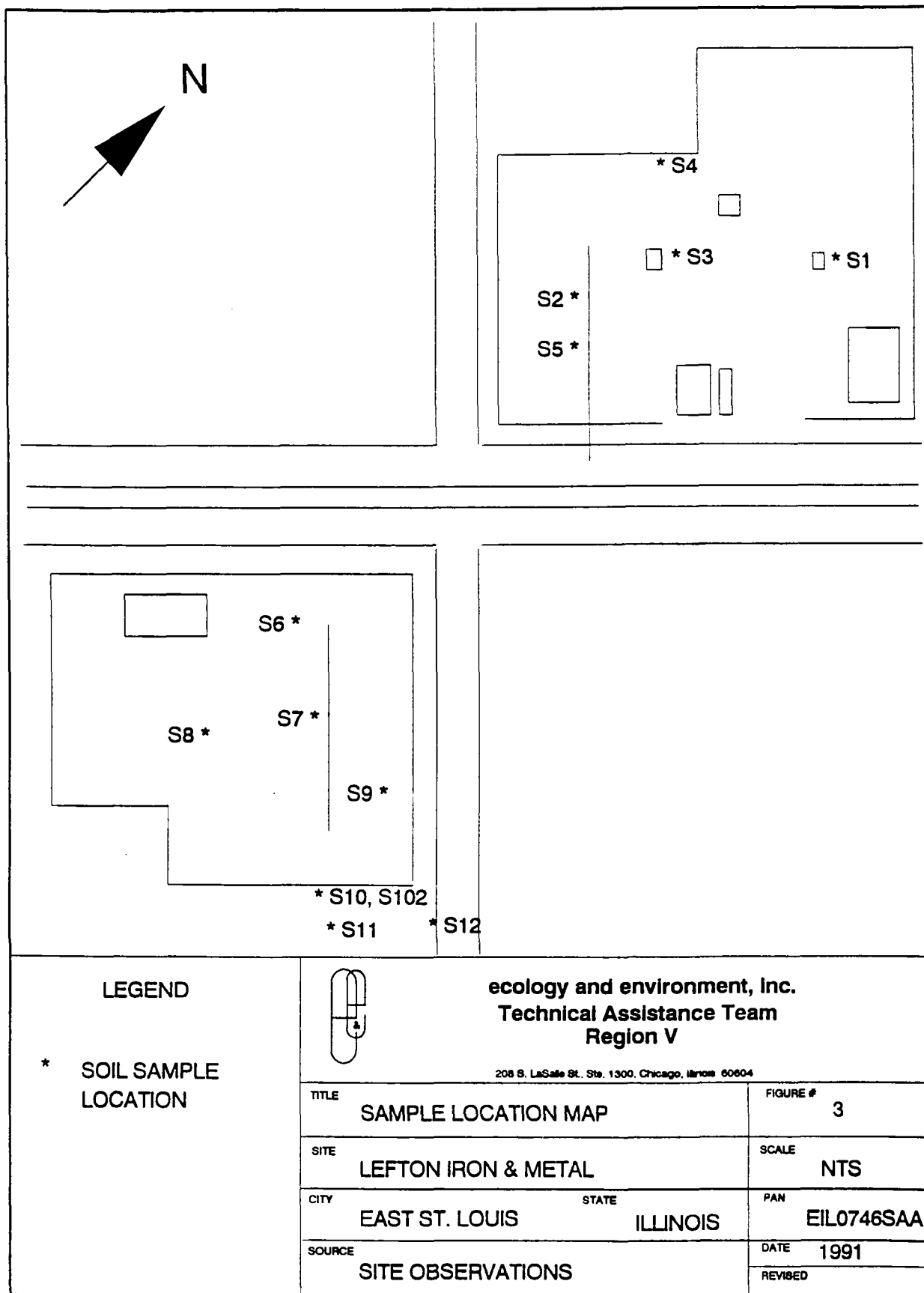


TABLE 1
SUMMARY OF LEFTON ANALYTICAL RESULTS*

SAMPLE NUMBER	AROCHLOR 1242 mg/Kg	AROCHLOR 1254 mg/Kg	AROCHLOR 1260 mg/Kg	TOTAL PCB CONCENTRATION
S01	5.9	ND	ND	21.9
S02	5.2	15	ND	17.2
S03	0.61	1.4	ND	2.01
S04	ND	ND	27	27
S05	1.1	1.7	ND	2.8
S06	0.74	1.9	ND	2.64
S07	8.6	14	ND	22.6
S08	ND	35	ND	35
S09	ND	ND	68	68
S10	10	25	ND	35
S11	36	84	ND	120
S12	28	110	ND	138
S102**	14	31	ND	45

*PCBs 1016, 1221, 1232 and 1248 were analyzed for but were not detected in any of the samples.

**Duplicate sample of S10

ND = Not Detected

Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants;

- o The accessibility of the contaminated area behind Yard 2, as well as the elevated levels of PCBs within that area provided the potential for exposure by nearby population or animals. Vagrancy is a problem in the community and the area of contamination is highly accessible because it is located outside the fenced area.

High levels of hazardous substances, pollutants, or contaminants, in soils largely at or near the surface that could migrate;

- o The elevated concentrations of PCBs in the soils at the surface pose a threat of migration of contaminated materials due to rain or melting snow. There is also the possibility of airborne migration of PCBs absorbed to dust particles. People and animals contacting contaminated areas could track contaminants to other areas on-site as well as off-site.

Weather conditions that could cause hazardous substances, pollutants, or contaminants, to migrate or be released;

- o Precipitation could cause both lateral and vertical migration of contamination in the soil. Wind erosion of PCB contaminated dusts also pose a threat of migration.

The PCB contamination in the soils is the most serious threat present at the site. PCBs have a threshold limit value (TLV) OF 1 milligram per cubic meter (mg/m^3) and an immediately dangerous to life and health (IDLH) value of $10 \text{ mg}/\text{m}^3$ in air. PCBs have been found to exhibit carcinogenicity in laboratory animals. Chronic exposure to high concentrations of PCBs can cause liver damage, chloracne, and other immunological effects.

SUMMARY

The Lefton site, an active metal scrap yard where PCBs had been previously discovered, was investigated to assess the threat to human health and the environment. Results indicate that PCBs are present at

levels above 50 ppm in the fill area behind yard 2. This area is unsecured and easily accessible.

TAT recommends a removal action at the Lefton site that would include fencing the fill area behind yard 2 followed by excavation and disposal of contaminated soils within this area.

APPENDIX A

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 1 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1001

DIRECTION OF
PHOTOGRAPH: WEST

WEATHER
CONDITIONS: SUNNY

PHOTOGRAPHED BY: J. ZAKUTANSKY

SAMPLE ID
(if applicable): S01

DESCRIPTION: View of yard 1

where sample S01 was taken.



DATE: 10/24/91

TIME: 1013

DIRECTION OF
PHOTOGRAPH: WEST

WEATHER
CONDITIONS: SUNNY

PHOTOGRAPHED BY: J. ZAKUTANSKY

SAMPLE ID
(if applicable): S02

DESCRIPTION: View of yard 2

where S02 was taken.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 2 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1014

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of yard 1.

DATE: 10/24/91

TIME: 1015

DIRECTION OF
PHOTOGRAPH:
WEST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of yard 1.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 3 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1032

DIRECTION OF
PHOTOGRAPH: SE

WEATHER
CONDITIONS: SUNNY

PHOTOGRAPHED BY: J. ZAKUTANSKY

SAMPLE ID
(if applicable): S03

DESCRIPTION: Area within yard 1
where S03 was taken, north of
the big press.



DATE: 10/24/91

TIME: 1134

DIRECTION OF
PHOTOGRAPH:
WEST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S04



DESCRIPTION: Area where S04 was taken. The Lefton property ends at the fence
line. There is however, debris and stained soil on the other side of the
boundary.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 4 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1034

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S04



DESCRIPTION: View along fence line of Lefton property. Sample S04 was taken just outside of the property line to determine if contamination was migrating off-site.

DATE: 10/24/91

TIME: 1035

DIRECTION OF
PHOTOGRAPH:
SOUTHWEST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S05



DESCRIPTION: View of area within yard 1 where S05 was taken.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 5 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1126

DIRECTION OF
PHOTOGRAPH:
NORTHEAST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of yard 1.

DATE: 10/24/91

TIME: 1127

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S06



DESCRIPTION: View of area within yard 2 where sample S06 was taken.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 6 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1128

DIRECTION OF
PHOTOGRAPH:
SOUTHWEST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of yard 2.

DATE: 10/24/91

TIME: 1131

DIRECTION OF
PHOTOGRAPH:
NORTHWEST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of yard 2.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 7 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1146

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S07



DESCRIPTION: View of area within yard 2 where sample S07 was taken.

DATE: 10/24/91

TIME: 1156

DIRECTION OF
PHOTOGRAPH:
SOUTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S08



DESCRIPTION: View of area within yard 2 where S08 was taken.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 8 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1216

DIRECTION OF
PHOTOGRAPH:
EAST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S10



DESCRIPTION: View of area where S10 and duplicate samples were taken.

DATE: 10/24/91

TIME: 1225

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S11



DESCRIPTION: View of area where S11 was taken.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 9 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1220

DIRECTION OF
PHOTOGRAPH:
SOUTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: View of area behind yard 2 where previous dumping allegedly took place.

DATE: 10/24/91

TIME: 1226

DIRECTION OF
PHOTOGRAPH:
NORTH

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
S12



DESCRIPTION: View of area where S12 was taken.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: LEFTON IRON & METAL

PAGE 10 OF 10

U.S. EPA ID: NE

TDD: T05-9107-019

PAN: EIL0746SA

DATE: 10/24/91

TIME: 1230

DIRECTION OF
PHOTOGRAPH:
EAST

WEATHER
CONDITIONS:
SUNNY

PHOTOGRAPHED BY:
J. ZAKUTANSKY

SAMPLE ID
(if applicable):
N/A



DESCRIPTION: Behind yard 2 looking down Brady Avenue.

APPENDIX B

nd environment, inc.

100 N. LAKE STREET, CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

Protecting the Environment

MEMORANDUM

October 12, 1991

Mr. Zakutansky, Project Manager, E & E, Chicago, IL

G. Malkin, TAT-Chemist, E & E, Chicago, IL *gm*

Data Quality Assurance Review, Lefton Metal & Scrap Yard,
St. Louis, Illinois

Project TDD: T05-9107-806

Project TDD: T05-9107-019

Project PAN: EIL0746AAA

Project PAN: EIL0746SAA

A quality assurance review of 13 soil samples collected from
Lefton Metal & Scrap Yard site in East St. Louis, Illinois has been
performed. Analysis for PCB (EPA method 8080) was performed by Ecology
Services, Cheektowaga, New York.

Soil samples were numbered: S01 through S12, and S102.

Conclusions:

Time: Acceptable

Samples were collected on October 24, 1991, extracted on
October 25, 1991 and analyzed by November 4, 1991. This met the
EPA requirement for extraction of 7 days and analysis within 40
days of extraction for soil PCB samples.

Calibration: Acceptable

Initial Calibration: Acceptable

A 5-point validation was performed on the instrument. The
relative standard deviations (%RSD) of calibration factors for
Aroclor 1254 and Aroclor 1242 were within the prescribed control
limits, less than 10%.

Continuing Calibration: Acceptable

The established quality control criterion for the percent
difference (%D) between the initial calibration factor is less than 15%.
For Aroclor 1254 and Aroclor 1242 in the continuing analysis
was within the control limits.

TEST CODE : STSCLP1

JOB NUMBER : 9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
TEST NAME : SOLIDS - TOTAL
PARAMETER : SOLIDS - TOTAL

UNITS : X

SAMPLE ID	RESULTS	Q
EE-91-24697 S01	75	
EE-91-24698 S02	78	
EE-91-24699 S03	84	
EE-91-24700 S04	66	
EE-91-24701 S05	88	
EE-91-24702 S06	59	
EE-91-24703 S07	84	
EE-91-24704 S08	79	
EE-91-24705 S09	76	
EE-91-24706 S10	88	
EE-91-24707 S11	84	
EE-91-24708 S12	86	
EE-91-24709 S102	88	

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO

RESULTS IN DRY WEIGHT

TEST NAME : PCB-SOIL

SAMPLE ID LAB : EE-91-24697

SAMPLE ID CLIENT: S01

XSOLIDS : 75.0 %

UNITS : MG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		1.3
PCB-1242	5.9		1.3
PCB-1254	16		1.3
PCB-1221	ND		1.3
PCB-1232	ND		1.3
PCB-1248	ND		1.3
PCB-1260	ND		1.3

QUALIFIERS: C = COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO

RESULTS IN DRY WEIGHT

TEST NAME : PCB-SOIL

SAMPLE ID LAB : EE-91-24698

SAMPLE ID CLIENT: S02

%SOLIDS : 78.0 %

UNITS : MG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		1.3
PCB-1242	5.2		1.3
PCB-1254	15		1.3
PCB-1221	ND		1.3
PCB-1232	ND		1.3
PCB-1248	ND		1.3
PCB-1260	ND		1.3

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE : SPCB 1

JOB NUMBER : 9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24699
SAMPLE ID CLIENT: S03

%SOLIDS : 84.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		0.24
PCB-1242	0.61		0.24
PCB-1254	1.4		0.24
PCB-1221	ND		0.24
PCB-1232	ND		0.24
PCB-1248	ND		0.24
PCB-1260	ND		0.24

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO

RESULTS IN DRY WEIGHT

TEST NAME : PCB-SOIL

SAMPLE ID LAB : EE-91-24700

SAMPLE ID CLIENT: S04

XSOLIDS : 66.0 %

UNITS : MG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		4.5
PCB-1242	ND		4.5
PCB-1254	ND		4.5
PCB-1221	ND		4.5
PCB-1232	ND		4.5
PCB-1248	ND		4.5
PCB-1260	27		4.5

QUALIFIERS: C - COMMENT

ND = NOT DETECTED

J = ESTIMATED VALUE

B = ALSO PRESENT IN BLANK

L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24701
SAMPLE ID CLIENT: S05

%SOLIDS : 88.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		0.45
PCB-1242	1.1		0.45
PCB-1254	1.7		0.45
PCB-1221	ND		0.45
PCB-1232	ND		0.45
PCB-1248	ND		0.45
PCB-1260	ND		0.45

QUALIFIERS: C = COMMENT ND = NOT DETECTED
 J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
 L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24702
SAMPLE ID CLIENT: S06

%SOLIDS : 59.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		0.034
PCB-1242	0.74		0.034
PCB-1254	1.9		0.034
PCB-1221	ND		0.034
PCB-1232	ND		0.034
PCB-1248	ND		0.034
PCB-1260	ND		0.034

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24703
SAMPLE ID CLIENT: S07

XSOLIDS : 84.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		2.4
PCB-1242	8.6		2.4
PCB-1254	14		2.4
PCB-1221	ND		2.4
PCB-1232	ND		2.4
PCB-1248	ND		2.4
PCB-1260	ND		2.4

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24704.
SAMPLE ID CLIENT: S08

XSOLIDS : 79.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		13
PCB-1242	ND		13
PCB-1254	35		13
PCB-1221	ND		13
PCB-1232	ND		13
PCB-1248	ND		13
PCB-1260	ND		13

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO

RESULTS IN DRY WEIGHT

TEST NAME : PCB-SOIL

SAMPLE ID LAB : EE-91-24705

SAMPLE ID CLIENT: S09

%SOLIDS : 76.0 %

UNITS : MG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	ONT. LIMIT
PCB-1016	ND		6.6
PCB-1242	ND		6.6
PCB-1254	ND		6.6
PCB-1221	ND		6.6
PCB-1232	ND		6.6
PCB-1248	ND		6.6
PCB-1260	68		6.6

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24706
SAMPLE ID CLIENT: S10

%SOLIDS : 88.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND	-	4.5
PCB-1242	10		4.5
PCB-1254	25		4.5
PCB-1221	ND		4.5
PCB-1232	ND		4.5
PCB-1248	ND		4.5
PCB-1260	ND		4.5

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24707
SAMPLE ID CLIENT: S11

%SOLIDS : 84.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	ONT. LIMIT
PCB-1016	ND		12
PCB-1242	36		12
PCB-1254	84		12
PCB-1221	ND		12
PCB-1232	ND		12
PCB-1248	ND		12
PCB-1260	ND		12

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO
RESULTS IN DRY WEIGHT
TEST NAME : PCB-SOIL
SAMPLE ID LAB : EE-91-24708
SAMPLE ID CLIENT: S12

XSOLIDS : 86.0 %
UNITS : MG/KG
MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		12
PCB-1242	28		12
PCB-1254	110		12
PCB-1221	ND		12
PCB-1232	ND		12
PCB-1248	ND		12
PCB-1260	ND		12

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT

TEST CODE :SPCB 1

JOB NUMBER :9102.583

Ecology and Environment, Inc.
Analytical Services Center

CLIENT : TAT- CHICAGO

RESULTS IN DRY WEIGHT

TEST NAME : PCB-SOIL

SAMPLE ID LAB : EE-91-24709

SAMPLE ID CLIENT: S102

XSOLIDS : 88.0 %

UNITS : MG/KG

MATRIX : SOLID

PARAMETER	RESULTS	Q	QNT. LIMIT
PCB-1016	ND		2.3
PCB-1242	14		2.3
PCB-1254	31		2.3
PCB-1221	ND		2.3
PCB-1232	ND		2.3
PCB-1248	ND		2.3
PCB-1260	ND		2.3

QUALIFIERS: C = COMMENT ND = NOT DETECTED
J = ESTIMATED VALUE B = ALSO PRESENT IN BLANK
L = PRESENT BELOW STATED DETECTION LIMIT